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LCD TV

SERVICE MANUAL

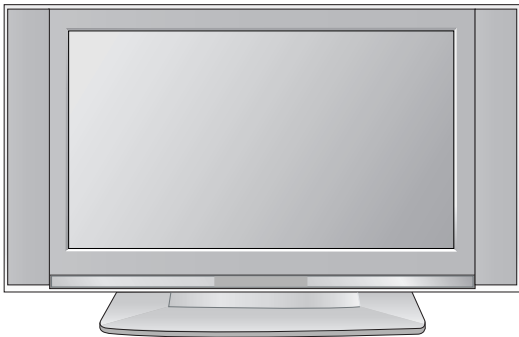
CHASSIS : ML-041B

FACTORY MODEL : 17LX1R-MB

MODEL : 17LX1R

CAUTION

BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by \triangle in the Schematic Diagram and Replacement Parts List.

It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent X-RADIATION, Shock, Fire, or other Hazards.

Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and its components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

X-RAY Radiation

Warning:

The source of X-RAY RADIATION in this TV receiver is the High Voltage Section and the LCD PANEL.

For continued X-RAY RADIATION protection, the replacement panel must be the same type panel as specified in the Replacement Parts List.

To determine the presence of high voltage, use an accurate high impedance HV meter.

Adjust brightness, color, contrast controls to minimum.

Measure the high voltage.

The meter reading should indicate

23.5 \pm 1.5KV: 14-19 inch, 26 \pm 1.5KV: 19-21 inch,

29.0 \pm 1.5KV: 25-29 inch, 30.0 \pm 1.5KV: 32 inch

If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.

Before returning the receiver to the customer,

always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)

With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.

If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1M Ω and 5.2M Ω .

When the exposed metal has no return path to the chassis the reading must be infinite.

An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)

Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.

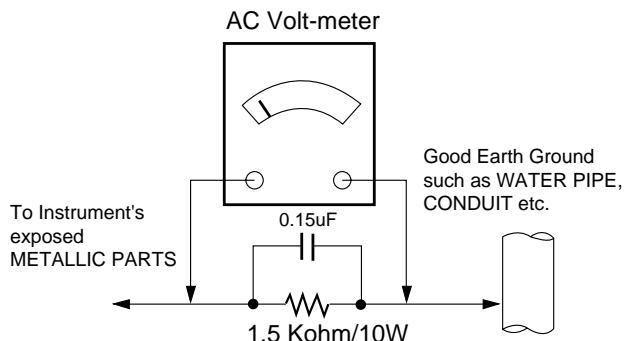
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.

Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.

Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which corresponds to 0.5mA.

In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the **SAFETY PRECAUTIONS** on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
 - a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
 - b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
 - c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.**CAUTION:** A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.

2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe. Do not test high voltage by "drawing an arc".

3. Do not spray chemicals on or near this receiver or any of its assemblies.

4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)

CAUTION: This is a flammable mixture.

Unless specified otherwise in this service manual, lubrication of contacts is not required.

5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.

7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.

Always remove the test receiver ground lead last.

8. Use with this receiver only the test fixtures specified in this service manual.

CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices*. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the

unit under test.

2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500 °F to 600 °F.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle. Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
 - a. Allow the soldering iron tip to reach normal temperature. (500 °F to 600 °F)
 - b. Heat the component lead until the solder melts.
 - c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
 - a. Allow the soldering iron tip to reach a normal temperature (500 °F to 600 °F)
 - b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
 - c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
CAUTION: Work quickly to avoid overheating the circuit board printed foil.
- d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush.
(It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor

Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device

Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor

Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.

CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife.
Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side.
Carefully crimp and solder the connections.

CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

This specification is applied to ML-041B chassis.

2. Requirement for Test

Testing for standard of each part must be followed in below condition.

- (1) Temperature : $25^{\circ}\text{C} \pm 2^{\circ}\text{C}$
- (2) Humidity : $65\% \pm 10\%$
- (3) Power : Standard input voltage (AC 100-240V, 50/60Hz)
- (4) Measurement must be performed after heat-run more than 30min.
- (5) Adjusting standard for this chassis is followed a special standard.

3.General Specification

No.	Item		Specification	Remark
1	Maker		LPL	LPL
	Type		TFT Color LCD Module	
	ActiveDisplay Area		17.0 inches(434.38mm) diagonal	
	Pixel Pitch [mm]		0.291mm(H)x0.291mm(V)xRGB	
	Electrical Interface		LVDS	
	Color Depth		6BIT, 16,777,216 colors	
	Size [mm]		400(H) x 258.7(V) x 22(D)	
	Surface Treatment		Anti Glare Hard Coating	
	Operating Mode		Normally Black	
	Back light Unit		4 CCFL(4 lamps)	
	R/T	Typ.	R.T.:12ms + F.T.:13ms	

***Function**

No	Item	Specification	Remark
1	Teletext	TOP, FLOF, LIST 10 page	Top(option) / ONLY PAL
2	REMOCON	NEC Code	PAL/ NTSC
3	AV Input	2	Rear(option, NT), side(ONLY 50tool)
4	S-Vedio Input	1	Rear
5	Component input	1	Rear (option, NT)Except COMMERCIAL
6	PERI TV Connector	Full SCART : 1	Rear (option,EU)
7	RGB(VGA)Input	1	D-sub 15 pin
8	H/p input	1	
9	PC Sound input	1	Except COMMERCIAL
10	RS-232	YES	ONLY COMMERCIAL
11	Discrete IR	YES	ONLY COMMERCIAL
12	2 Carrier Stereo	BG, DK	ONLY PAL
13	NICAM Stereo	BG, I, LL'	ONLY PAL
14	2 Carrier Dual	BG, DK	ONLY PAL
15	NICAM Dual	BG, I, LL'	ONLY PAL
16	DW(Double Window) Mode	X	
17	MW(Multi Window) Mode	X	
18	Film Mode	X	
19	Noise Reduction	X	
20	Progressive Scan	0	
21	Motion Detection	X	
22	SRS WOW	X	
23	wivel Speaker	X	
24	Ez-pip	X	
25	ARC	0	
26	DRP	0	
27	DCDI	X	
28	HDCP	X	
29	LIGHTING LOGO	0	OLNY 17LX1R

4. Mechanical specification

No	Item	Content			Remark
1	Product Dimension		Width (W)	Length (D)	Height (H)
		Before Packing	553.5	181	365.7
		After Packing	577	280	490
2	Product Weight	Only SET	7.7kg		
		With BOX	9.8 kg		

5.Engineering Specification

5-1.General Specification(TV)

No.	ITEM	CONTENTS			REMARK
	ENERGE	SYNC(V/H)	VIDEO	POWER CONSUMPTION	LED COLOR
1	Normal	On/On	Active	≤65W	Green
	Stand By,	Off/On		≤1W(110 V) ≤2W	Red
	Cut-off Switch off	-	-	0W	OFF
				PBP SWAP ► ON/OFF	
	ITEM	Specification			Remark
2	D-SUB Pin configuration	1 : RED 3 : Blue 5 : S.T (GND) 7 : Green GND 9 : N.C 11: ID0(GND) 13: H-Sync 15: SCL		2 : Green 4 : ID2 (GND) 6 : RED GND 8 : Blue GND 10: D-GND 12:SDA 14: V-Sync Shell: GND	10: Digital GND
3	Control Function	1) Contrast/Brightness 2) H-Position / V-Position 3) Tracking : Clock / Phase 4) Auto Configure RESET			
4	Comoponent Jack	1 : Y 3 : Pb 5 : Pr			Middle east / NTSC Area
5	D4 Jack (525i,525p,750p,1125i)	1 : Y 3 : Pb 5 : Pr 7 : Line1 Ready 9 : LINE2 11: LINE3 13: Line3 Ready		2 : Y GND 4 : Pb GND 6 : Pr GND 8 : LINE1 10:Line2 Ready 12:SWITCH GND 14: SWITCH	JAPAN Only

6. Signal Timing(Resolution)

6-1. PC Mode

[Table 7] Timming chart of Receivable Mode

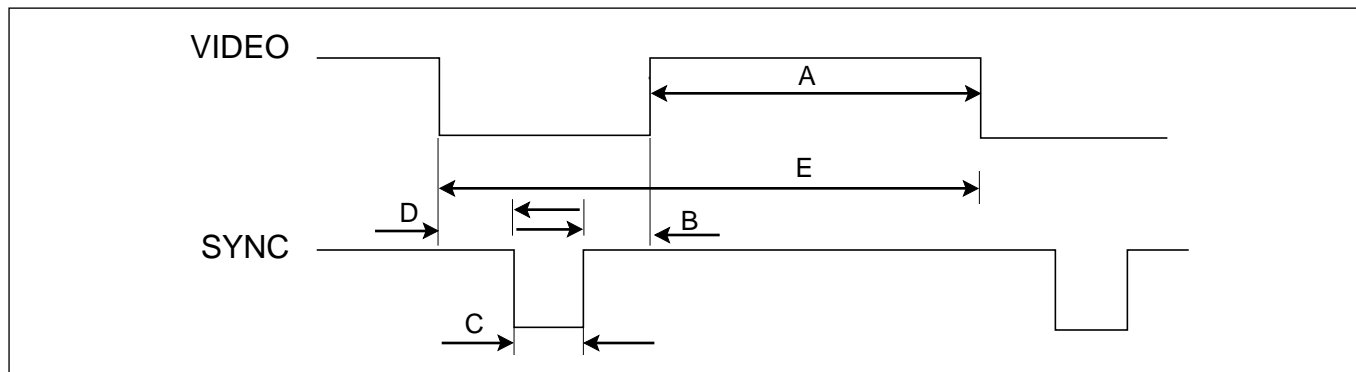
* H [dot] / V [line]

Mode	VGA-60	VGA-67	VGA-75	SVGA-56	SVGA-60	SVGA-72	SVGA-75	XGA-60	XGA-70	XGA-75	WXGA-60
H_display	640	640	640	800	800	800	800	1024	1024	1024	1280
V_display	480	480	480	600	600	600	600	768	768	768	768
V frequency	60	67	75	56	60	72	75	60	70	75	60
H_total	800	864	840	1024	1056	1040	1056	1344	1328	1312	1680
H_blanking	160	224	200	224	256	240	256	320	304	288	400
H_sync	96	64	64	72	128	120	80	136	136	96	136
H Polarity	NEG.	NEG.	NEG	POS	POS	POS	POS	NEG	NEG	POS	NEG
H_bp	48	96	120	128	88	64	160	136	144	176	200
H_fp	16	64	16	24	40	56	16	160	24	16	64
H-freq[kHz]	31.469	35.0	37.5	35.156	37.879	48.077	46.875	48.363	56.476	60.023	47.693
/Clk[MHz]	25.175	30.24	31.5	36.0	40.0	50.0	49.5	65.0	75.0	78.75	80.125
V_total	525	525	500	625	628	666	625	806	806	800	795
V_blanking	45	45	20	25	28	66	25	38	38	32	27
V_sync	2	3	3	2	4	6	3	6	6	3	7
V Polarity	NEG	NEG	NEG	POS	POS	POS	POS	NEG	NEG	POS	POS
V_bp	33	39	16	22	23	23	21	29	29	28	19
V_fp	10	3	1	1	1	37	1	3	3	1	1

7. Optical Character

No	Item	Specification					Remark
					LPL		
1	Viewing Angle <CR ≥ 10>	R/L		88/88			
		U/D		88/88			
2	Luminance	Luminance (cd/m2)		450		Typical MAX	
		Variation		1.3			
3	Contrast Ratio				400		All white / All black
4	CIE Color Coordinates	White	WX	Typ.	0.289		Min = Typ. - 0.03
			WY	Typ.	0.303		Max = Typ. + 0.03
		RED	Xr	Typ.	0.633		
			Yr	Typ.	0.341		
		Green	Xg	Typ.	0.280		
			Yg	Typ.	0.069		
		Blue	Xb	Typ.	0.145		
			Yb	Typ.	0.069		

TIMING CHART



<< Dot Clock (**MHz**), Horizontal Frequency (**kHz**), Vertical Frequency (**Hz**), Horizontal etc... (**μs**), Vertical etc... (**ms**) >>

Mode	H/V Sort	Sync Polarity	Dot Clock	Frequency	Total Period (E)	Video Active Time (A)	Front Porch (B)	Sync Duration (D)	Back Porch (F)	Resolution
1	H	+	25.175	31.469	800	640	16	96	48	640x480
	V	-		59.94	525	480	10	2	33	
2	H	-	30.240	35	864	640	64	64	96	640x480
	V	+		66.667	525	480	3	3	39	
3	H	-	31.5	37.5	840	640	16	64	120	640x480
	V	-		75	500	480	1	3	16	
4	H	-	36	35.156	1024	800	24	72	128	800x600
	V	-		56.25	625	600	1	2	22	
5	H	+	40.0	37.879	1056	800	40	128	88	800x600
	V	+		60.317	628	600	1	4	23	
6	H	+	50.0	48.077	1040	800	56	120	64	800x600
	V	+		72.188	666	600	37	6	23	
7	H	+/-	49.5	46.875	1056	800	16	80	160	800x600
	V	+/-		75.0	625	600	1	3	21	
8	H	-	65.0	48.363	1344	1024	24	136	160	1024x768
	V	-		60.004	806	768	3	6	29	
9	H	+	75	56.476	1328	1024	24	136	144	1024x768
	V	+		70.069	806	768	3	6	29	
10	H	+	78.75	60.023	1312	1024	16	96	176	1280x768
	V	-		75.029	800	768	1	3	28	
11	H	+	79.50	47.776	1664	1280	64	128	192	1280x768
	V	-		59.870	798	768	3	7	20	

ADJUSTMENT INSTRUCTION

1. Application

This document is applied to 17" Wide LCD TV which is manufactured in Monitor Factory or is produced on the basis of this data.

2. Adjustment

2.1 Adjustment Details

The machine can be adjusted by itself automatically but even for self -adjustment it needs someone to operate it.

2.2 Auto Gain/Offset adjustment

2.2.1 RF Mode adjustment

2.2.1.1 Adjustment preparation

- Execution of RF no signal during Heat Run over 30min.

2.2.1.2 Auto Gain/Offset adjustment

- Press IN-START Key by using the Remote Controller (SVC), after converting to Adjustment-Mode, Press VOL+ Key consecutively in Scaler Auto gain menu. (RM-17LZ40/50/17LX1R press INSTART key two times)
- After adjustment is complete, pressing enter key, stores and completes the process.

2.2.2 Component Mode adjustment

(Model: Only RT/ RM-17LZ40/50/17LX1R which is possible to input Component signal)

2.2.2.1 Adjustment preparation

- Execution of RF no signal during Heat Run over 30min.
- The component jack(Y,Pb,Pr) of LCD TV is connected to Y, Pb, Pr Output Signal of Pattern Generator (MSPG-925 SERISE)

2.2.2.2 Auto Gain/Offset adjustment

- Convert to Component Mode in Input-Mode.
- Select MODEL : 228 (480p Mode, Y : 100%, Pb/Pr : 75%) in Pattern Generator
Select PATTERN : 33 (Color Bar Pattern signal) in Pattern Generator
(MSPG-925 SERISE)
- Press IN-START Key by using the Remote Controller(SVC) , after converting to Adjustment-Mode, press VOL+ Key consecutively in AutoGain Menu.
- After adjustment is complete, pressing enter key, stores and completes the process.

2.2.3 PC Mode adjustment

2.2.3.1 Adjustment preparation

- Execution of RF no signal during Heat Run over 30min.
- 15 Pin D-Sub Jack of LCD TV is connected to the signal of Pattern Generator.

2.2.3.2 Auto Gain/Offset adjustment

- Convert to PC Mode in Input-Mode.
- mpress Resolution XGA (1024X768) and Pattern 16 Step Gray Signal ,or 16 Step (11 Step) Gray Signal which follows in the VG819.
- Press IN-START Key by using the Remote Controller(SVC) , after converting to Adjustment-Mode, press VOL+ Key consecutively in AutoGain Menu.
- After adjustment is complete, pressing enter key, stores and completes the process

2.3 EDID (The Extended Display Identification Data) Adjustment

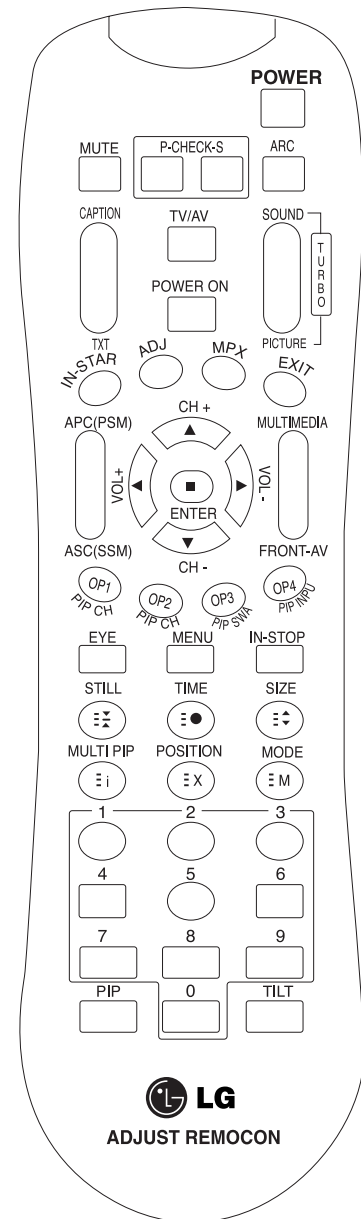
- Connect 15 Pin D-Sub Cable to D-Sub Jac.
- Set up the input mode of the SET to PC
- For the DDC connect an automation equipment and data is written on DDC.
(Refer to Working Order for relative setting up)

2.3.1 EDID DATA

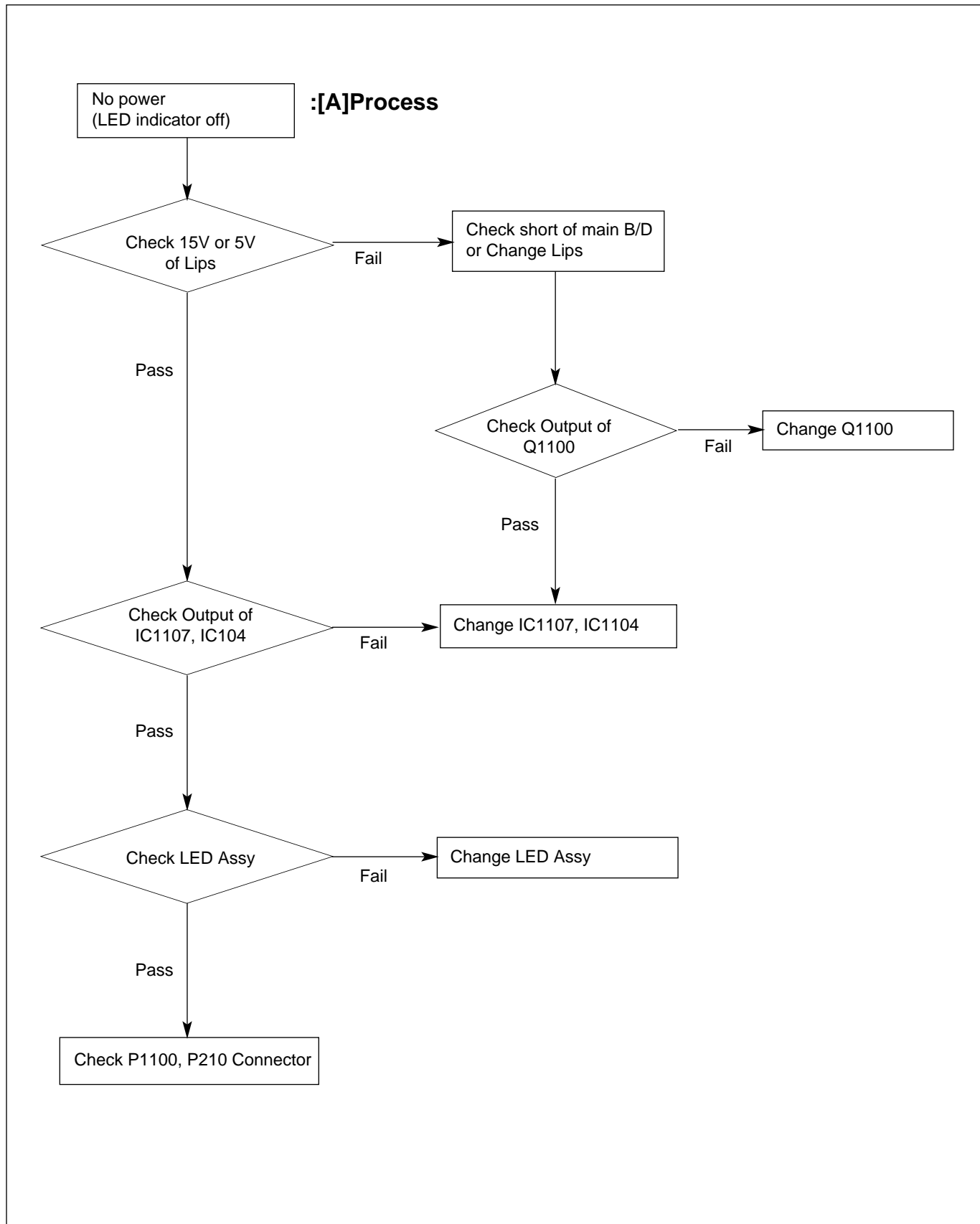
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00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	F9	43	01	01	01	01
10	04	0F	01	01	20	39	21	78	EE	1D	32	A2	57	47	9A	25
20	11	4A	4D	A5	CE	00	61	4F	45	4A	31	4F	01	01	01	01
30	01	01	01	01	01	01	0E	1F	00	80	51	00	1E	30	40	80
40	37	00	74	DF	10	00	00	1E	00	00	00	FD	00	38	4B	1F
50	41	09	00	0A	20	20	20	20	20	20	00	00	00	FC	00	31
60	37	4C	58	31	52	0A	20	20	20	20	20	20	00	00	00	FC
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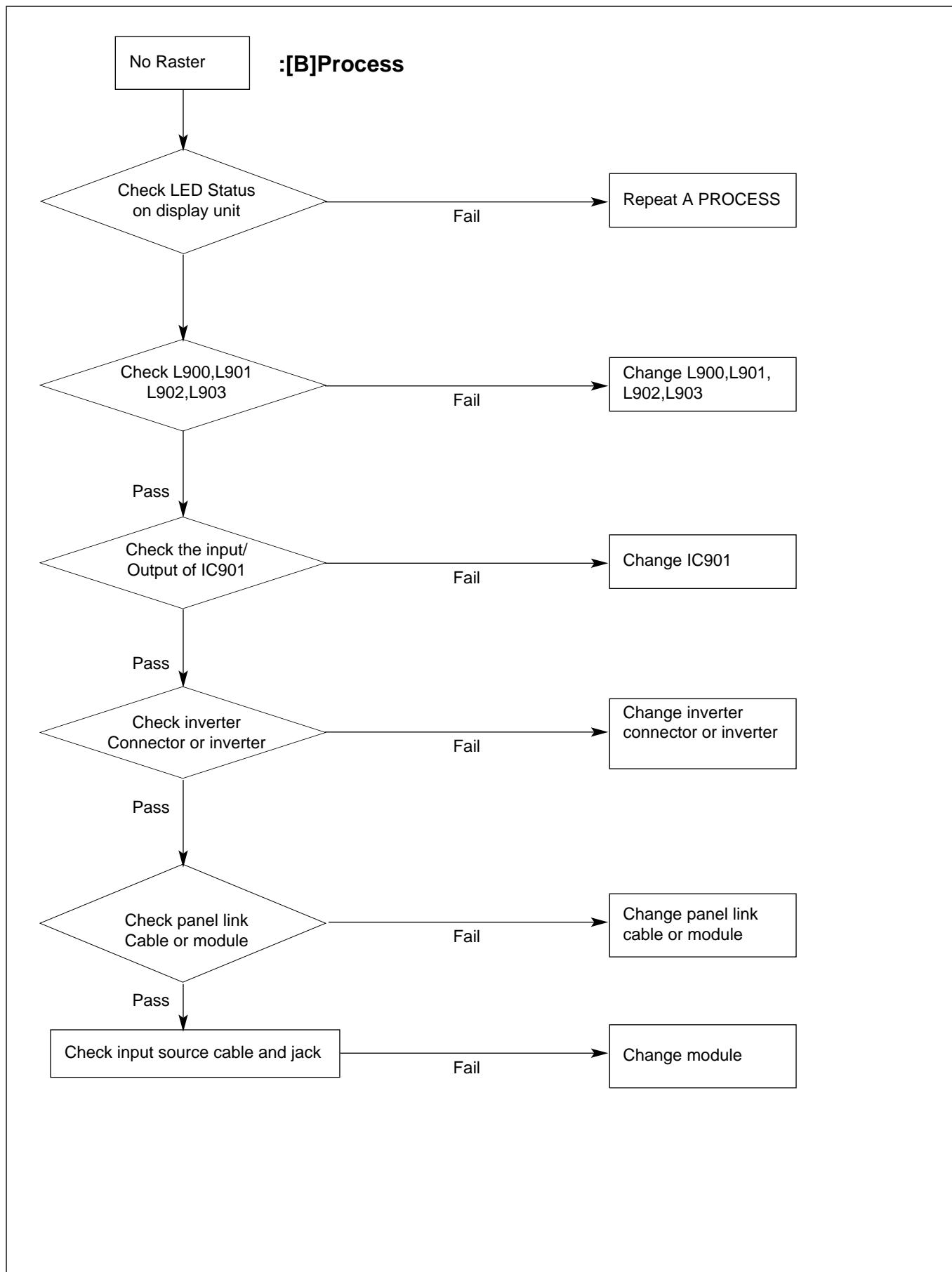
SVC REMOCON

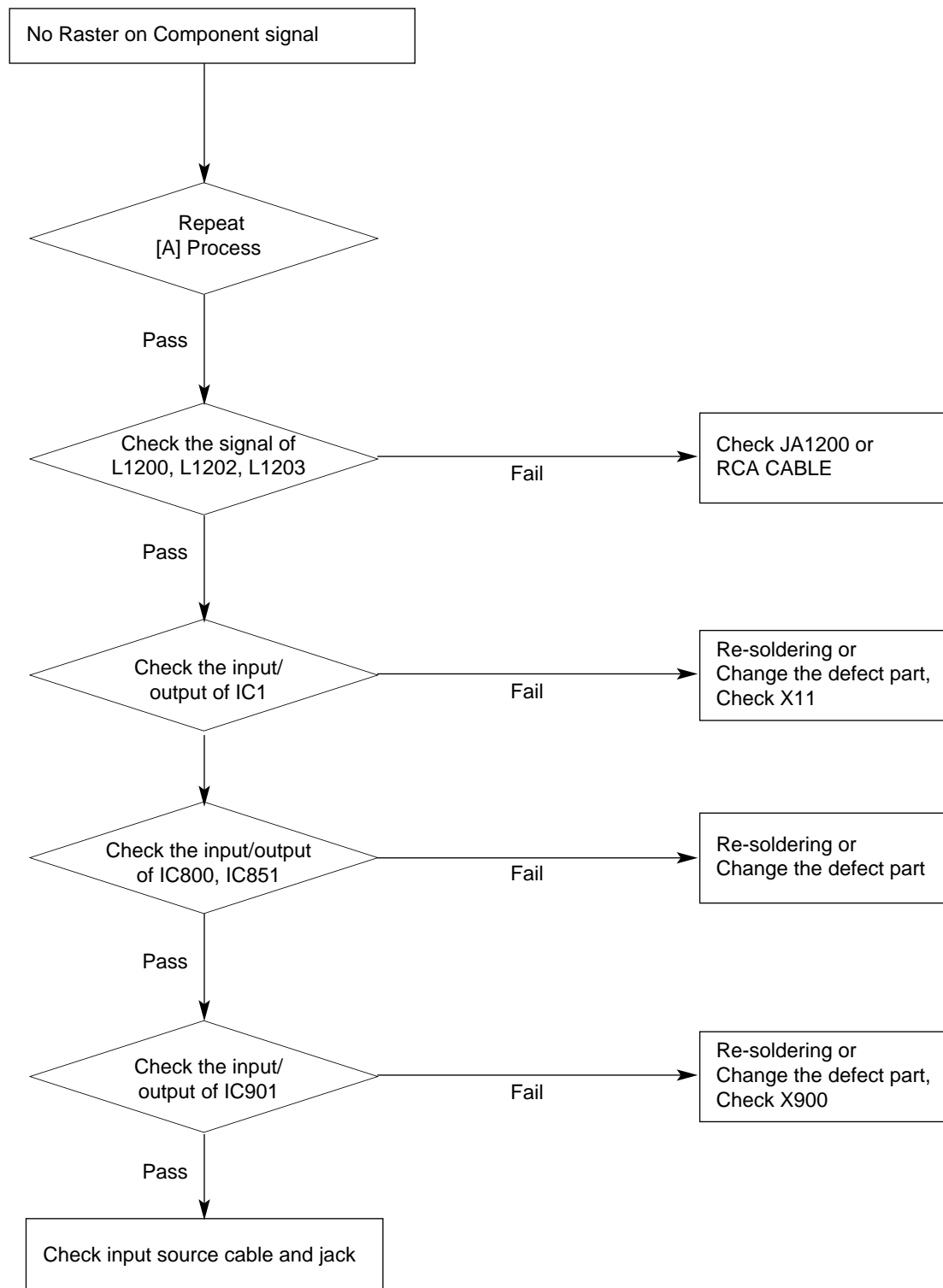
NO	KEY	FUNTION	REMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start → mute → Adjust → AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen →W/B adjustment →Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMEDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ±	To move channel up/down or to select a function displayed on the screen.	
21	VOL ±	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	

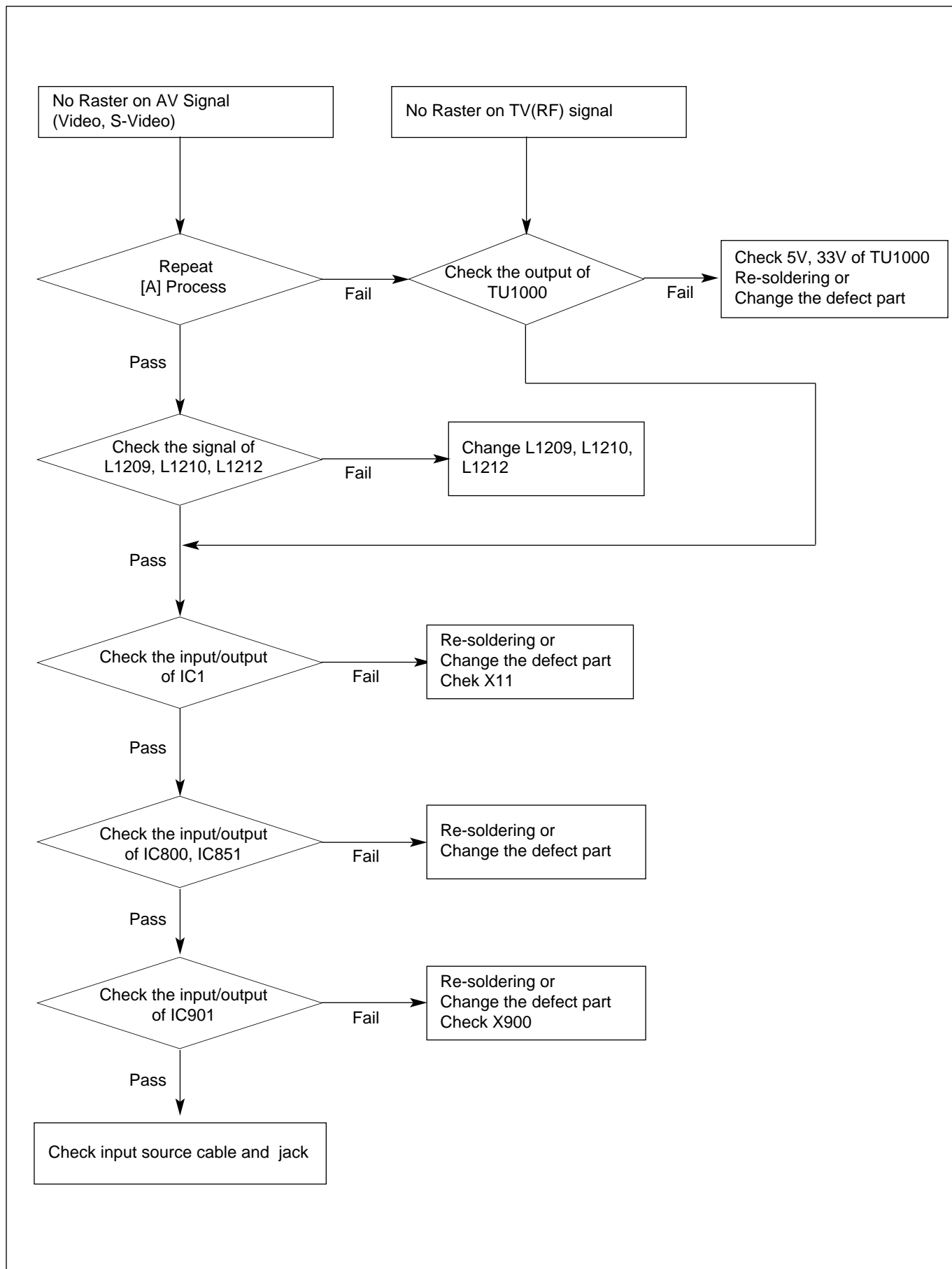


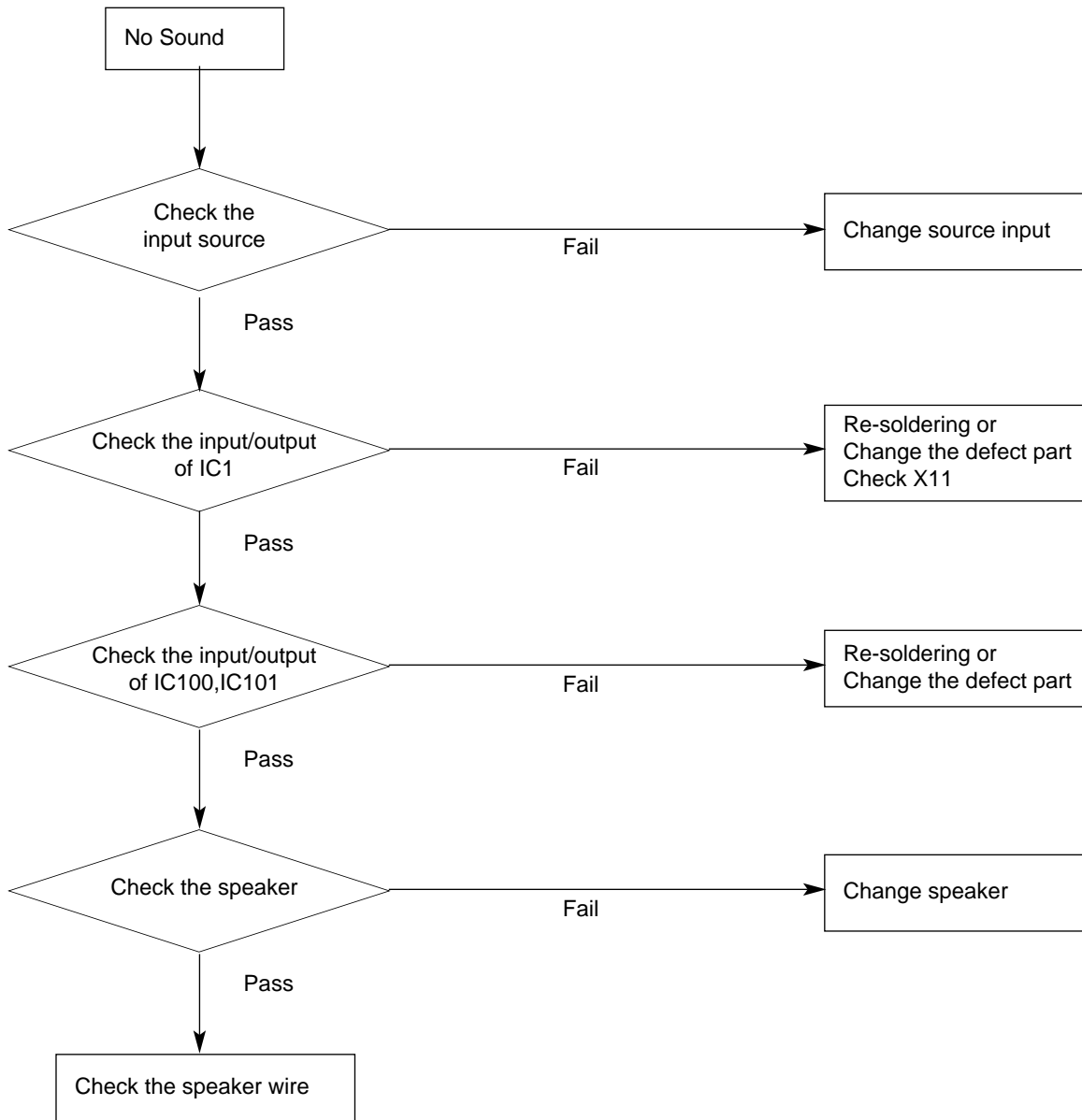
TROUBLESHOOTING



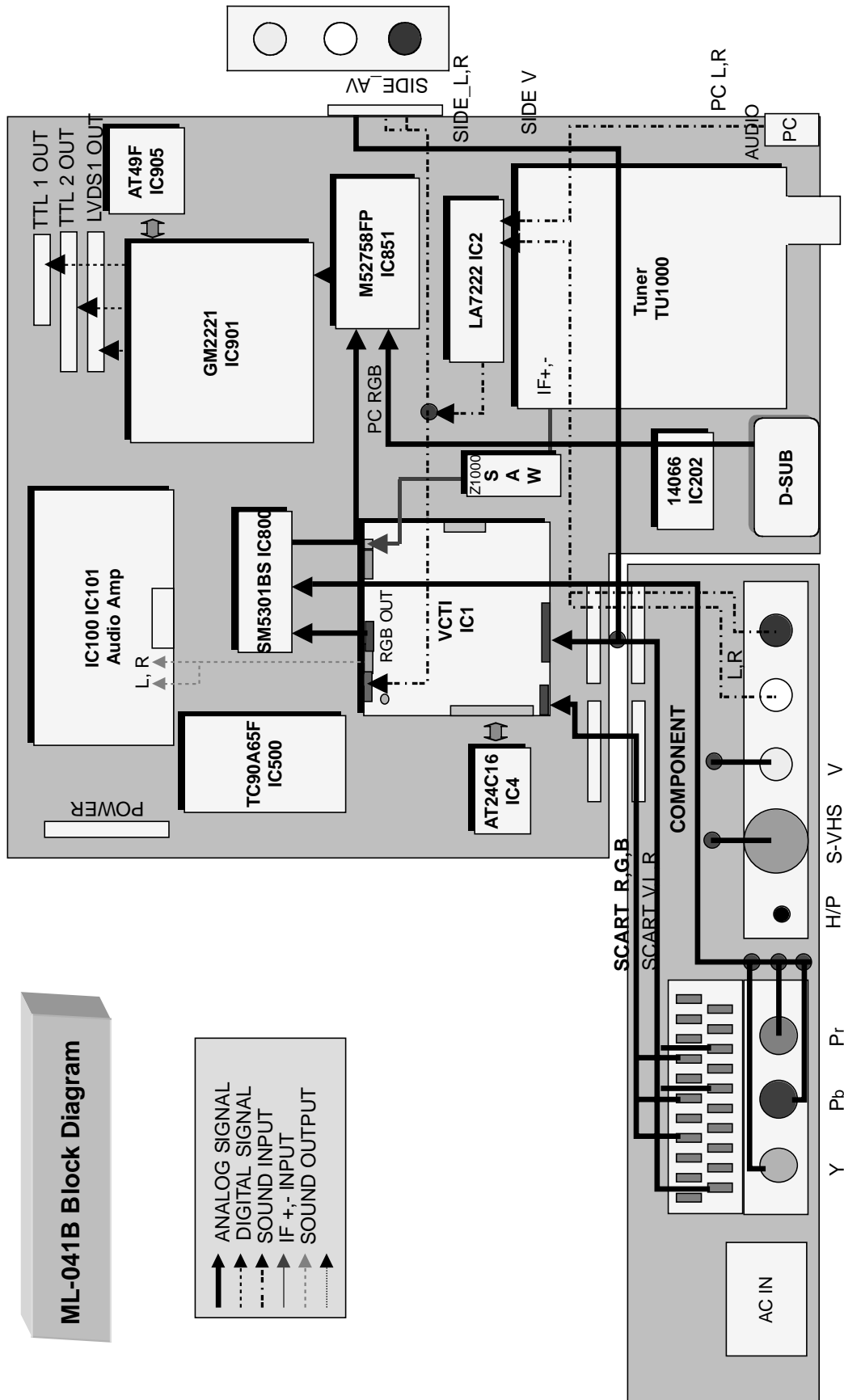








BLOCK DIAGRAM



BLOCK DIAGRAM DESCRIPTION

1. Video Controller Unit & Display Data Conversion Unit

The video controller unit receives the video signals inputted through the tuner, AV port (AV1, AV2, S-Video, component), and converts them into an analog RGB signal through the microcomputer (VCTI) combined with the video decoder that integrates various functions in one chip.

Either the analog RGB, component YPbPr or PC RGB signal is selected by the switching IC and inputted to a scaler (GM2221), which is sent to the LCD module after being modified to an LVDS signal through the integrated LVDS IC.

Or, it is sent to the LCD module as a TTL output.

VCTi is the main microprocessor that handles video signal processing and sound signal processing. It also manages the RF signals received from the tuner.

The scaler can control timing to fit into the LCD panel, and can also control the size and position of the input signal.

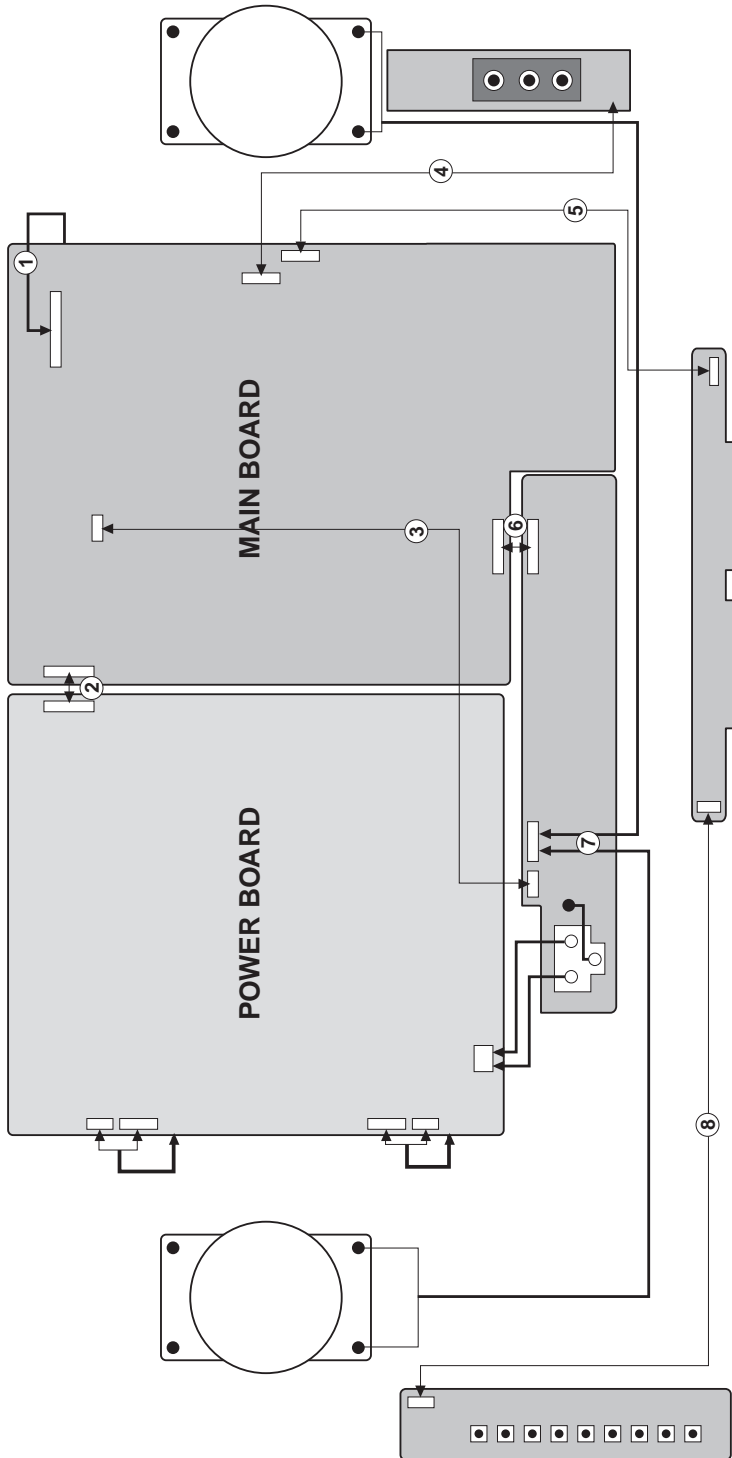
2. Power Supply Unit

The power supply unit provides 15V and 5V DC power to the mainboard.

The PWM Step-Up DC/DC Converter circuit is used to generate the 33V used for the tuner.

15V power is directly used by the sound amplifier IC and is also used to generate 5V power through the regulator. 12V power is used for the LCD panel power, and 5V power is converted to 3.3V and 1.8V power through the regulator, which in turn supplies electrical power for ICs such as VCTI and scaler.

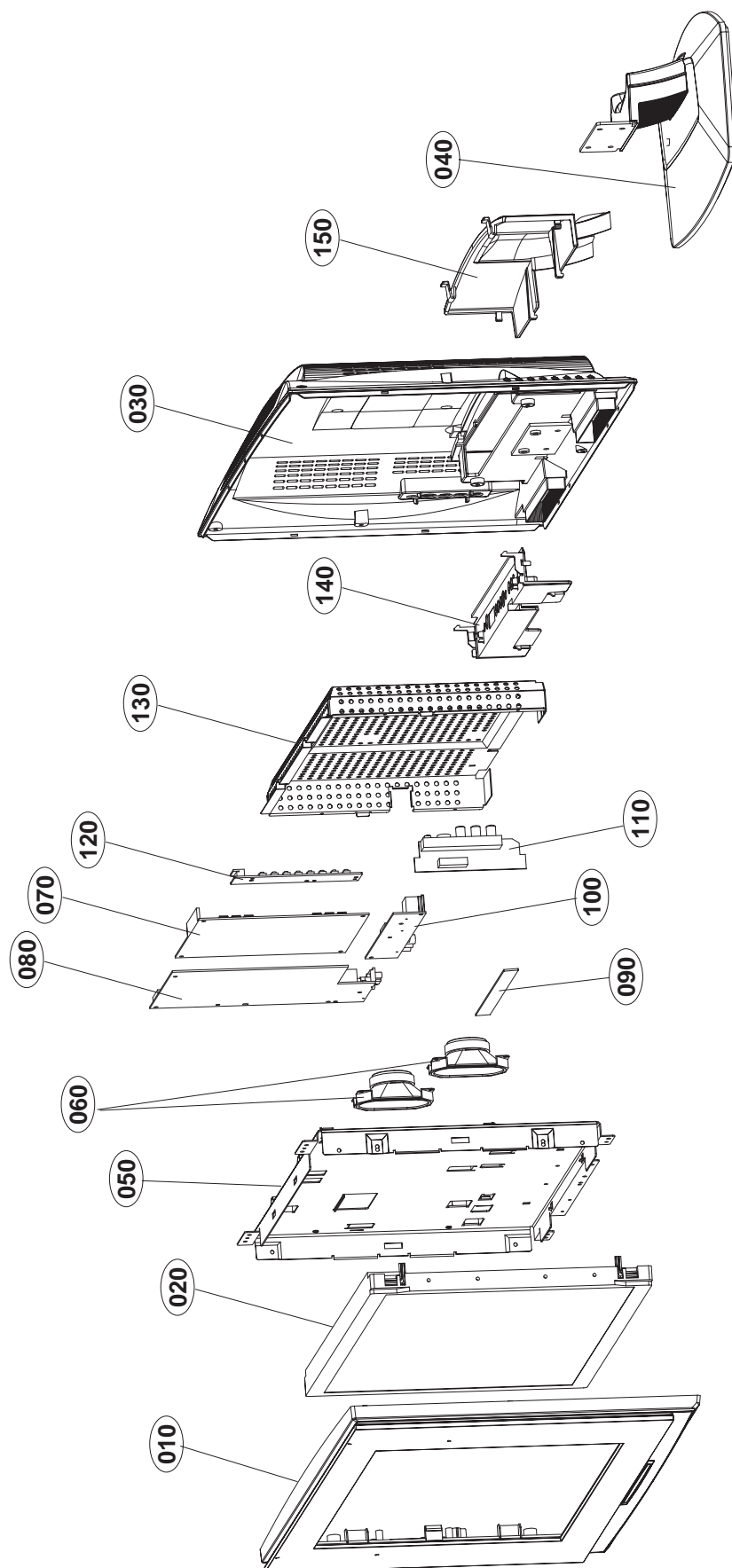
WIRING DIAGRAM



Wiring Part List

No.	Part No.
1	6631T11012R
2	6631T20028G
3	6631T25019Y
4	6631T20033L
5	6631T20010Q
6	6631T11017R
7	6631T25019L
8	6631T25023W

EXPLODED VIEW



EXPLODED VIEW PARTS LIST

No.	PART NO.	DESCRIPTION
010	3091TKC146A	CABINET ASSEMBLY, 17LX1 BRAND 3090TKC106 NON
	3091TKC146B	CABINET ASSEMBLY, 17LX1R BRAND 3090TKC106 C/SKD
020	6304FLP213ALCD	LCD(LIQUID CRYSTAL DISPLAY), LC171W03-A4KJ LG PHILPS TFT COLOR LEAD FREE(TV)
	or 6306V17001B	LCD(LIQUID CRYSTAL DISPLAY), LC171W03-A4K4 LG PHILPS TFT COLOR
	or 6304FLP140B	LCD(LIQUID CRYSTAL DISPLAY),LC171W03-A4K7 LG PHILPS TFT COLOR 17.1W,SS D-IC,IMAGE STICKING IMPROVEMENT,450NITS,25MS,6LAMP COST C
030	3809TKC061S	BACK COVER ASSEMBLY, 17LX1R 3808TKC051 ML-041B
	3809TKC061T	BACK COVER ASSEMBLY, 17LX1R 3808TKC051 ML-041B C/SKD
040	3043TKK179G	TILT SWIVEL ASSEMBLY, 17LX1R NON NOBLE BLACK(NO PRINT)
	3043TKK179H	TILT SWIVEL ASSEMBLY, 17LX1R NON NOBLE BLACK C/SKD(NO PRINT)
050	4951TKS154D	METAL ASSEMBLY, FRAME ML-041B 17LX1
	4951TKS154E	METAL ASSEMBLY, FRAME ML-041B 17LX1 C/SKD
060	6400GKTX01C	SPEAKER,FULLRANGE, F1527C-6428-4 K-TONE FULL-RANGE(GENERAL) 4 OHM 7/12W 85DB OTHERS 40*70MM TRACK TYPE
070	6871TPT280L	PWB(PCB) ASSEMBLY,POWER, RZ-17LA60 POWER TOTAL LIEN CHANG LIPS FOR LPL 17 WIDE PB FREE
	or 6871TPT280C	PWB(PCB) ASSEMBLY,POWER, 17RZ40 POWER TOTAL LIEN CHANG LIPS FOR LPL 17" WIDE
080	3313TN1033A	MAIN TOTAL ASSEMBLY, 17LX1R-UA MAIN BOARD BRAND (ML-041B) LF
090	6871TSTA04A	PWB(PCB) ASSEMBLY,SUB, 17LX1 IR BOARD LED & P/SW TOTAL BRAND (ML-041B) LF
100	6871TST964A	PWB(PCB) ASSEMBLY,SUB, RM/RT-15,17,20 DVD JACK BOARD VIDEO TOTAL BRAND ML-041B LF
110	6871TST995A	PWB(PCB) ASSEMBLY,SUB, 17LX1R SIDE A/V SUB TOTAL BRAND (ML-041B) LF
120	6871TST976B	PWB(PCB) ASSEMBLY,SUB, 17LX1R-UA CONTROL TOTAL BRAND (MAIN ML-041B) LF
130	4951TKK173C	METAL ASSEMBLY, REAR SHIELD ML-041B RZ-17LZ50 EMI-SPONGE
	4951TKK173D	METAL ASSEMBLY, REAR SHIELD ML-041B RZ-17LZ50 EMI-SPONGE C/SKD
140	3551TKK529G	COVER ASSEMBLY, 17LX1R REAR A/V ASSY ML-041B 1
150	3550TKK543B	COVER, 17LX1R REAR AV

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the characters at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyester
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2005. 03. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD				
CAPACITOR				
			C1008	0CE227CF638 "220UF SHL,SD 16V M FM5 TP 5"
			C1101	0CE227BH638 220U KME 25V M FM5 TP5
			C1104	0CE227BH638 220U KME 25V M FM5 TP5
			C1107	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C1140	0CE227BH638 220U KME 25V M FM5 TP5
			C1152	0CE107BK638 100UF KME 50V M FM5 TP5
			C123	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C124	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C131	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C132	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C133	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C134	0CE477BH618 470UF KME TYPE 25V M FL TP 5
			C1150	0CH3105F946 1UF 16V Z F 2012 R/TP
			C1151	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C127	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C128	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C135	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C136	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C15	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C16	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C19	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C203	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C4	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C41	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C44	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C49	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C6	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C803	0CH3105F946 1UF 16V Z F 2012 R/TP
			C804	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C808	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C810	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C812	0CH3105F946 1UF 16V Z F 2012 R/TP
			C851	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C854	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C855	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C858	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C861	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C863	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C865	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C866	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C867	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C869	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C871	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C874	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C875	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C877	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C909	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C910	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C917	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C920	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C925	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C926	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C927	0CH3104K946 100000PF 50V Z F 2012 R/TP

DATE: 2005. 03. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
			C928	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C929	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C930	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C934	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C935	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C936	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C937	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C938	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C939	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C940	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C943	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C944	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C945	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C946	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C947	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C948	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C949	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C950	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C956	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C964	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C965	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C967	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C968	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C97	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C970	0CH3104K946 100000PF 50V Z F 2012 R/TP
			C13	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C14	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C2	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C20	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C21	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C46	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C50	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C59	0CH6102K406 1000PF 50V J SL 2012 R/TP
			C7	0CH6221K416 220PF 50V J NP0 2012 R/TP
			C8	0CH6221K416 220PF 50V J NP0 2012 R/TP
			C9	0CH6221K416 220PF 50V J NP0 2012 R/TP
			C907	0CH6331K416 330PF 50V J NP0 2012 R/TP
			C923	0CH6080K116 8PF 50V D NP0 2012 R/TP
			C924	0CH6080K116 8PF 50V D NP0 2012 R/TP
			C129	181-007F "MPE ECQ-V1H224JL3(TR), 50V 0"
			C130	181-007F "MPE ECQ-V1H224JL3(TR), 50V 0"
			C1003	0CH3103K516 10000PF 50V 10% B(Y5P) 2012
			C1007	0CH3103K516 10000PF 50V 10% B(Y5P) 2012
			C1010	0CK273DK51A 27000PF 2012 50V 10% B(Y5P)
			C107	0CK225DFK4A "2.2UF 2012 16V 20%,-20% F(Y5)"
			C109	0CH3103K516 10000PF 50V 10% B(Y5P) 2012
			C110	0CH3103K516 10000PF 50V 10% B(Y5P) 2012
			C1108	0CK106EF56A 10UF 3216 16V 10% X7R R/TP
			C1112	0CK225DFK4A "2.2UF 2012 16V 20%,-20% F(Y5)"
			C1113	0CK225DFK4A "2.2UF 2012 16V 20%,-20% F(Y5)"
			C1114	0CK106EF56A 10UF 3216 16V 10% X7R R/TP
			C113	0CK225DFK4A "2.2UF 2012 16V 20%,-20% F(Y5)"
			C201	0CK225DFK4A "2.2UF 2012 16V 20%,-20% F(Y5)"
			C202	0CK225DFK4A "2.2UF 2012 16V 20%,-20% F(Y5)"

DATE: 2005. 03. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C900	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C902	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1001	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1002	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1004	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C1005	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C11	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C114	0CK225DFK4A	"2.2UF 2012 16V 20%,-20% F(Y5"
		C115	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C116	0CK562CK51A	5600PF 1608 50V 10% R/TP B(Y
		C117	0CK562CK51A	5600PF 1608 50V 10% R/TP B(Y
		C118	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C12	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C125	0CK105EK56A	1UF 3216 50V 10% X7R R/TP
		C126	0CK105EK56A	1UF 3216 50V 10% X7R R/TP
		C200	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C22	0CK822CK56A	8200PF 1608 50V 10% X7R R/TP
		C23	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C24	0CK822CK56A	8200PF 1608 50V 10% X7R R/TP
		C25	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C26	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C27	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C28	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F(Y"
		C29	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C3	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C30	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F(Y"
		C31	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C32	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F(Y"
		C33	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F(Y"
		C34	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C35	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F(Y"
		C37	0CK334CF94A	"0.33UF 1608 16V 80%,-20% F(Y"
		C40	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C42	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C45	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C52	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C67	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C75	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C800	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP F"
		C801	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP F"
		C802	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP F"
		C807	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C811	0CK105CF94A	"1UF 1608 16V 80%,-20% R/TP F"
		C816	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C82	0CK474CH94A	"0.47UF 1608 25V 80%,-20% R/T"
		C901	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C903	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C904	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C905	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C906	0CK103CK51A	0.01UF 1608 50V 10% R/TP B(Y
		C911	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C912	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C913	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C914	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C915	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C916	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C918	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C919	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C921	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C922	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C961	0CK104CK56A	0.1UF 1608 50V 10% R/TP X7R
		C1015	0CH5390K416	39PF 50V 5% NP0 2012 R/TP

DATE: 2005. 03. 04.				
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C1016	0CH5390K416	39PF 50V 5% NP0 2012 R/TP
		C121	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C122	0CC100CK41A	10PF 1608 50V 5% R/TP NP0
		C43	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C47	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C48	0CC220CK41A	22PF 1608 50V 5% R/TP NP0
		C53	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C56	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C57	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C58	0CC221CK41A	220PF 1608 50V 5% R/TP NP0
		C74	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C83	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C85	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C86	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C88	0CC390CK41A	39PF 1608 50V 5% R/TP NP0
		C89	0CC390CK41A	39PF 1608 50V 5% R/TP NP0
		C98	0CC102CK41A	1000PF 1608 50V 5% R/TP NP0
		C1106	0CE477BD618	470UF KME TYPE 10V 20% FL TP
		C108	0CE476VH6DC	47UF MV 25V 20% R/TP(SMD) SM
		C1100	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1102	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C1103	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1109	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C111	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C1115	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1118	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C112	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C1124	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1130	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1132	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1134	0CE227WF6DC	220UF MVK 16V 20% R/TP(SMD)
		C1135	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1137	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C1149	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C119	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C120	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C17	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C5	0CE475WJ6DC	4.7UF MVK 35V 20% R/TP(SMD)
		C55	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C60	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C61	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C62	0CE475VK6DC	4.7UF MV 50V 20% R/TP(SMD) S
		C852	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C856	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C859	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C864	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C868	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C87	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C873	0CH8476F691	47UF 16V 20% 105STD (CYL) R/
		C876	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
		C888	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C96	0CE107WF6DC	100UF MVK 16V 20% R/TP(SMD)
		C99	0CH8106F691	10UF 16V 20% 105STD (CYL) R/
DIODEs				
		D100	0DRFC00288A	SS14 FAIR CHILD R/TP SMA 20-
		D101	0DRFC00288A	SS14 FAIR CHILD R/TP SMA 20-
		D1150	0DRGS00199A	UF4001 GENERAL SEMICONDUCTOR
		D102	0DS181009AA	KDS181 TP KEC SOT-23 80V 3
		D103	0DS181009AA	KDS181 TP KEC SOT-23 80V 3
		D107	0DS226009AA	KDS226 TP KEC SOT-23 80V 30

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		ZD104	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD105	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD200	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD209	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD201	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD202	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD203	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD204	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD205	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD206	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		ZD211	0DZ510009EE	UDZ S 5.1B TP ROHM-K SOD323
		D1151	0DZ330009DF	MTZJ33B TP ROHM-K DO34 0.5W
IC				
		IC905	0IZZTSA053A	ML-041B WXGA 17LX1R ATMEL 32
		IC3	0IKE702700D	"KIA7027AF 3, SOT-89 TP RESET"
		IC2	0ISA722200A	LA7222 (1280 AUDIO) - - -
		IC200	0IMMRSG036A	"M24C02-WMN6T(P),LF SGS-THOMS"
		IC4	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P
		IC903	0IMCRAL006A	AT24C16AN-10SI-2.7 ATMEL 8P
		IC100	0IMCRMZ002A	MP7720 MONOLITHIC POWER SYST
		IC101	0IMCRMZ002A	MP7720 MONOLITHIC POWER SYST
		IC851	0IMCRMIO06A	"M52758FP MITSUBISHI 36PIN, R"
		IC1	0IPRPMN003C	VCT49XYF C7(NTSC+PAL) MICRON
		IC800	0IPRPNP001A	"SM5301BS(ATSC DTV) NPC 28P,H"
		IC901	0IPRPGN015C	"GM2221-BC-LF,PB FREE GENESIS"
		IC1101	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,DP"
		IC1103	0IPMGSG018D	"LD1086DT18TR SGS-THOMSON 3P,"
		IC1108	0IMCRKE010A	KIA7812AF KEC 2P DPAK R/TP
		IC1110	0IPMG00003A	"KIA78M08F KEC 3P,DPAK R/TP 8"
		IC1111	0IPMG00004A	"KIA7805AF KEC 3P,DPAK R/TP 5"
		IC1112	0IMCRKE010A	KIA7812AF KEC 2P DPAK R/TP
		IC1113	0IPMG00003A	"KIA78M08F KEC 3P,DPAK R/TP 8"
		IC1105	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,DP"
		IC1106	0IPMGSG018D	"LD1086DT18TR SGS-THOMSON 3P,"
		IC1114	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,DP"
		IC1115	0IPMGFA061A	"FAN1587AD33X FAIRCHILD 3P,DP"
		IC202	0ISTL00026A	"MC14066BDR2G,LF ON SEMI 14P,"
COIL & CORE & INDUCTOR & FILTER				
		L104	6140TBZ045A	"38.5UH(DIP), 6A, P7.5, DR8.3"
		L105	6140TBZ045A	"38.5UH(DIP), 6A, P7.5, DR8.3"
		L1150	150-985B	DR8*11 2.4MH 0.16MM 270.5T
		L1100	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1101	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1103	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1105	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1106	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L1107	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L200	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L201	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L202	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L203	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L204	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L206	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L853	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L900	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L901	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L902	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L903	6210TCE001G	HH-1M3216-501 CERATEC 3216MM

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		L905	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1102	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L205	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L800	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L906	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L908	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		Z1000	6200QL3002F	"X6966M EPCOS ST SIP5K, 6200Q"
		L10	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L1001	0LC1020101A	1UH 10% 2012 R/TC FI-B2012-1
		L1002	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L15	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L2	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L8	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
FET & TRANSISTOR				
		IC902	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		IC1107	0TF492509AA	SI4925DY TP TEMIC 30V 6.1A
		Q1150	0TR322809AB	KTC3228-Y(KTC2383) TP KEC TO
		Q1	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q603	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q900	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1000	0TR388109AA	KTC3881 CHIP TP KEC - -
		Q101	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q1100	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q1151	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q12	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q13	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q14	0TR150400BA	CHIP 2SA1504S(ASY) BK KEC -
		Q15	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		IC1104	0TFV180005A	VISHAY SI4963DY R/TP SO-8 -2
RESISTORS				
		C250	0RH1802D622	18K 1/10W 5 D.R/TP
		C251	0RH1802D622	18K 1/10W 5 D.R/TP
		L1104	0RH2202D622	22K 1/10W 5 D.R/TP
		R1004	0RH3000D622	300 1/10W 5 D.R/TP
		R1010	0RH7501D622	7.5K 1/10W 5 D.R/TP
		R1012	0RH7502D622	75K 1/10W 5 D.R/TP
		R106	0RH1500D622	150 1/10W 5 D.R/TP
		R107	0RH1003D622	100K 1/10W 5 D.R/TP
		R1108	0RH1003D622	100K 1/10W 5 D.R/TP
		R1109	0RH1003D622	100K 1/10W 5 D.R/TP
		R1151	0RH4700D622	470 1/10W 5 D.R/TP
		R1153	0RH1000D622	100 1/10W 5 D.R/TP
		R126	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R132	0RH1003D622	100K 1/10W 5 D.R/TP
		R133	0RH1003D622	100K 1/10W 5 D.R/TP
		R134	0RH1003D622	100K 1/10W 5 D.R/TP
		R135	0RH1003D622	100K 1/10W 5 D.R/TP
		R14	0RH4701D622	4.7K 1/10W 5 D.R/TP
		R140	0RH0392D622	39 1/10W 5 D.R/TP
		R141	0RH0392D622	39 1/10W 5 D.R/TP
		R142	0RH0392D622	39 1/10W 5 D.R/TP
		R143	0RH0392D622	39 1/10W 5 D.R/TP
		R144	0RH0392D622	39 1/10W 5 D.R/TP
		R145	0RH0392D622	39 1/10W 5 D.R/TP
		R146	0RH0392D622	39 1/10W 5 D.R/TP
		R147	0RH0392D622	39 1/10W 5 D.R/TP
		R211	0RH0752D622	75 1/10W 5 D.R/TP

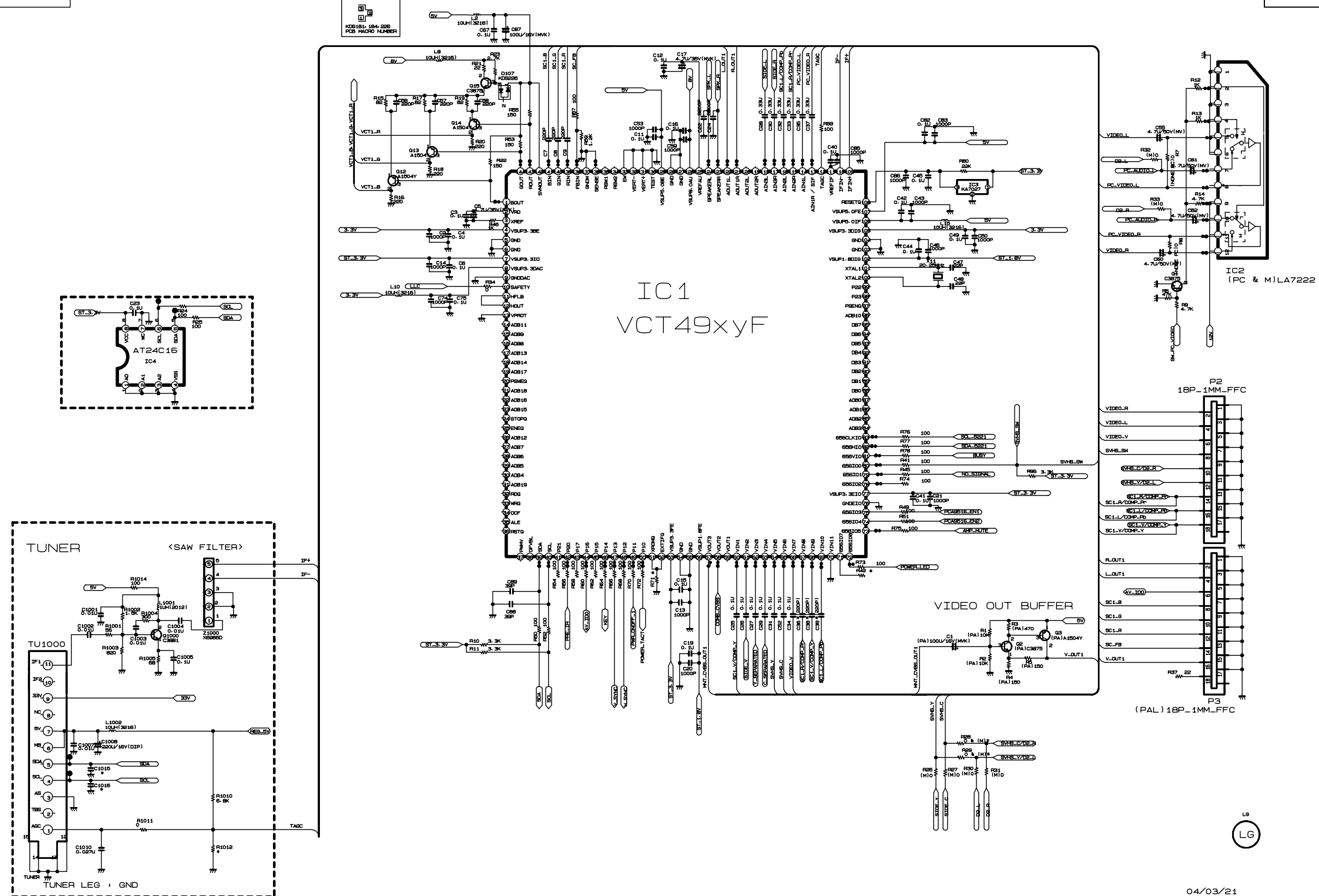
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R212	ORH0752D622	75 1/10W 5 D.R/TP
		R213	ORH0752D622	75 1/10W 5 D.R/TP
		R214	ORH4703D622	470K 1/10W 5 D.R/TP
		R215	ORH5101D622	5.1K 1/10W 5 D.R/TP
		R216	ORH5101D622	5.1K 1/10W 5 D.R/TP
		R217	ORH4703D622	470K 1/10W 5 D.R/TP
		R57	ORH1000D622	100 1/10W 5 D.R/TP
		R59	ORH1201D622	1.2K 1/10W 5 D.R/TP
		R6	ORH4702D622	47K 1/10W 5 D.R/TP
		R74	ORH1000D622	100 1/10W 5 D.R/TP
		R818	ORH8200D622	820 1/10W 5 D.R/TP
		R9	ORH4701D622	4.7K 1/10W 5 D.R/TP
		R908	ORH0822D622	82 1/10W 5 D.R/TP
		R910	ORH0822D622	82 1/10W 5 D.R/TP
		R915	ORH3600D622	CHIP 360-J 1/10 W
		R920	ORH2200D622	220 1/10W 5 D.R/TP
		R934	ORH1000D622	100 1/10W 5 D.R/TP
		R989	ORH8200D622	820 1/10W 5 D.R/TP
		R999	ORH1000D622	100 1/10W 5 D.R/TP
		R136	ORH8202D622	82K 1/10W 5 D.R/TP
		R137	ORH8202D622	82K 1/10W 5 D.R/TP
		C932	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		C933	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1002	ORH1501D622	1.5K OHM 1 / 10 W 2012 5.00%
		R1011	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1106	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R1152	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R1154	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1155	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R12	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R128	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R129	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R13	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R148	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R149	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R202	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R208	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R209	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R210	ORH0222D622	22 OHM 1 / 10 W 2012 5.00% D
		R36	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R817	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R822	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R903	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R918	ORH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R961	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R964	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R985	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R990	ORH1002D622	10K OHM 1 / 10 W 2012 5.00%
		R993	ORH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R10	ORJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R1001	ORJ0562D677	56 OHM 1/10 W 5% 1608 R/TP
		R1003	ORJ8200D677	820 OHM 1/10 W 5% 1608 R/TP
		R1005	ORJ0682D677	68 OHM 1/10 W 5% 1608 R/TP
		R1014	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R11	ORJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R1105	ORJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R1107	ORJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R1150	ORJ0102D677	10 OHM 1/10 W 5% 1608 R/TP
		R124	ORJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R125	ORJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R127	ORJ2701D677	2.7K OHM 1/10 W 5% 1608 R/TP
		R130	ORJ1202D677	12K OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R131	ORJ1202D677	12K OHM 1/10 W 5% 1608 R/TP
		R138	ORJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R139	ORJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R15	ORJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R16	ORJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R17	ORJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R18	ORJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R19	ORJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R20	ORJ2200D677	220 OHM 1/10 W 5% 1608 R/TP
		R203	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R205	ORJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R206	ORJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R207	ORJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R21	ORJ0222D677	22 OHM 1/10 W 5% 1608 R/TP
		R218	ORJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R219	ORJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R22	ORJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R220	ORJ7502D677	75K OHM 1/10 W 5% 1608 R/TP
		R221	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R224	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R225	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R226	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R227	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R229	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R23	ORJ2701D677	2.7K OHM 1/10 W 5% 1608 R/TP
		R230	ORJ7502D677	75K OHM 1/10 W 5% 1608 R/TP
		R24	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R240	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R25	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R28	ORJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R29	ORJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R34	ORJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R41	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R45	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R46	ORJ1001D677	1K OHM 1/10 W 5% 1608 R/TP
		R50	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R51	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R52	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R53	ORJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R54	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R55	ORJ1500D677	150 OHM 1/10 W 5% 1608 R/TP
		R56	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R58	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R60	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R62	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R64	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R66	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R68	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R69	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R70	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R72	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R73	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R75	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R76	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R77	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R78	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R80	ORJ2202D677	22K OHM 1/10 W 5% 1608 R/TP
		R835	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R838	ORJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R901	ORJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R902	ORJ0472D677	47 OHM 1/10 W 5% 1608 R/TP
		R904	ORJ0472D677	47 OHM 1/10 W 5% 1608 R/TP

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R907	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R909	0RJ0822D677	82 OHM 1/10 W 5% 1608 R/TP
		R911	0RJ4701D677	4.7K OHM 1/10 W 5% 1608 R/TP
		R912	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R913	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R914	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R917	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R928	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R929	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R930	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R931	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R932	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R935	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R936	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R938	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R939	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R941	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R942	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R943	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R944	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R945	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R946	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R947	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R950	0RJ0000D677	0 OHM 1/10 W 5% 1608 R/TP
		R953	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R954	0RJ1002D677	10K OHM 1/10 W 5% 1608 R/TP
		R96	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R979	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R980	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R981	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R982	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R983	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R984	0RJ1000D677	100 OHM 1/10 W 5% 1608 R/TP
		R991	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
		R992	0RJ3301D677	3.3K OHM 1/10 W 5% 1608 R/TP
OTHERS				
		X11	6202TST003C	HC-49/SM5H KONY CHIP 20.25MH
		X900	6202VDT002B	SX-1 SUNNY SC14.3MHZ +/- 30
		IC905	6620F00017A	CCSD-32T-SM WOYOYOUNG 32P PLC
		TU1000	6700VS0003D	TAEW-G052P LGIT MULTI VS RCA
CONTROL BOARD				
		R2200	ORN1101F409	1.10K 1/6W 1% TA52
		R2201	ORN8200F409	820 1/6W 1% TA52
		R2202	ORN5600F409	560 1/6W 1% TA52
		R2203	ORN4700F409	470 1/6W 1 TA52
		R2204	ORN3900F409	390 1/6W 1% TA52
		R2205	ORN3300F409	330 1/6W 1% TA52
		R2206	ORN2700F409	270 1/6W 1% TA52
		R2207	ORN3301F409	3.30K 1/6W 1% TA52
		R2208	ORN2000F409	200 1/6W 1% TA52
		SW2200	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2201	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2202	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2203	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2204	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2205	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2206	140-313B	TACT 2LEAD 160G(TA) LG C&D N
		SW2207	140-313B	TACT 2LEAD 160G(TA) LG C&D N

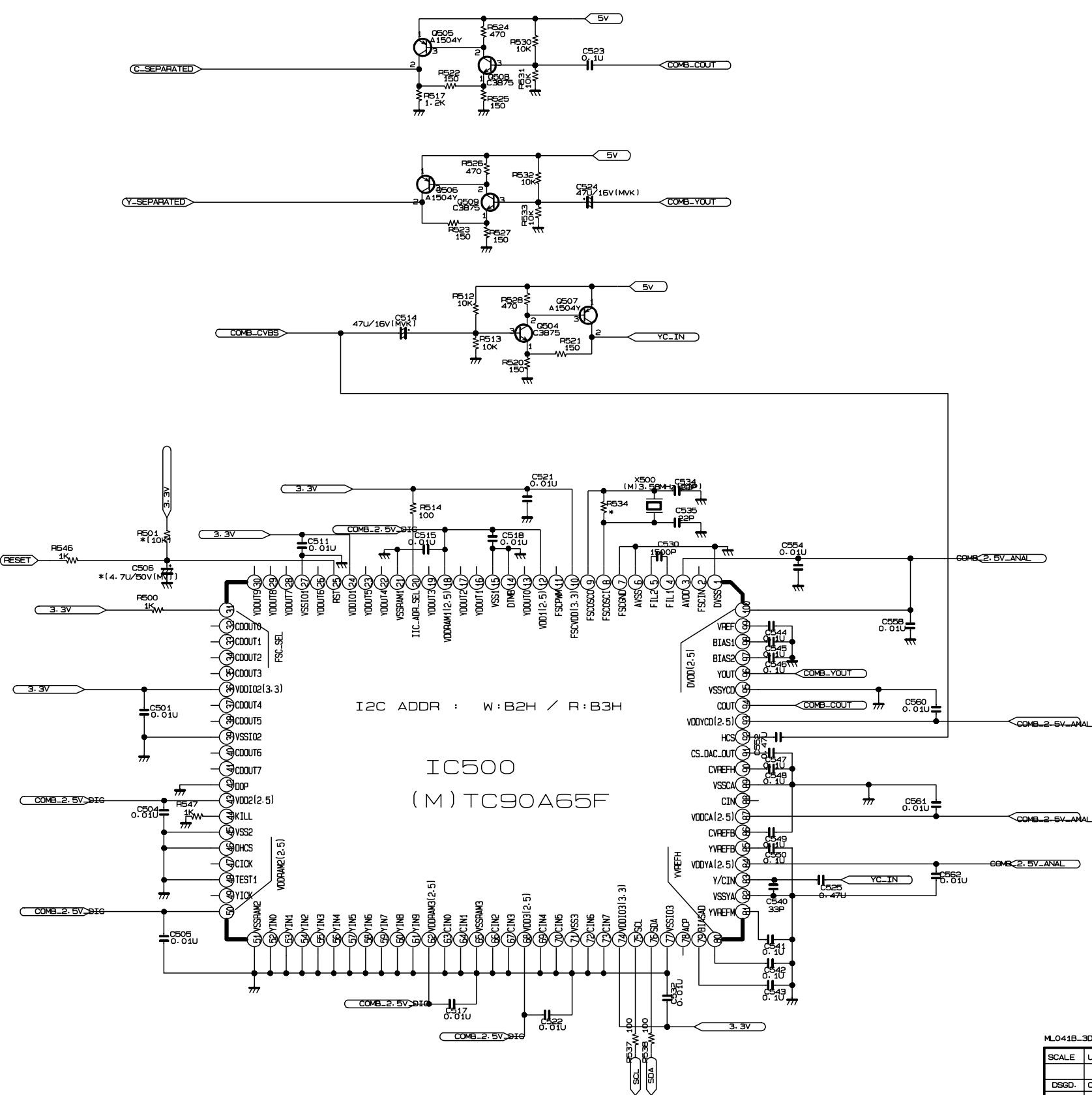
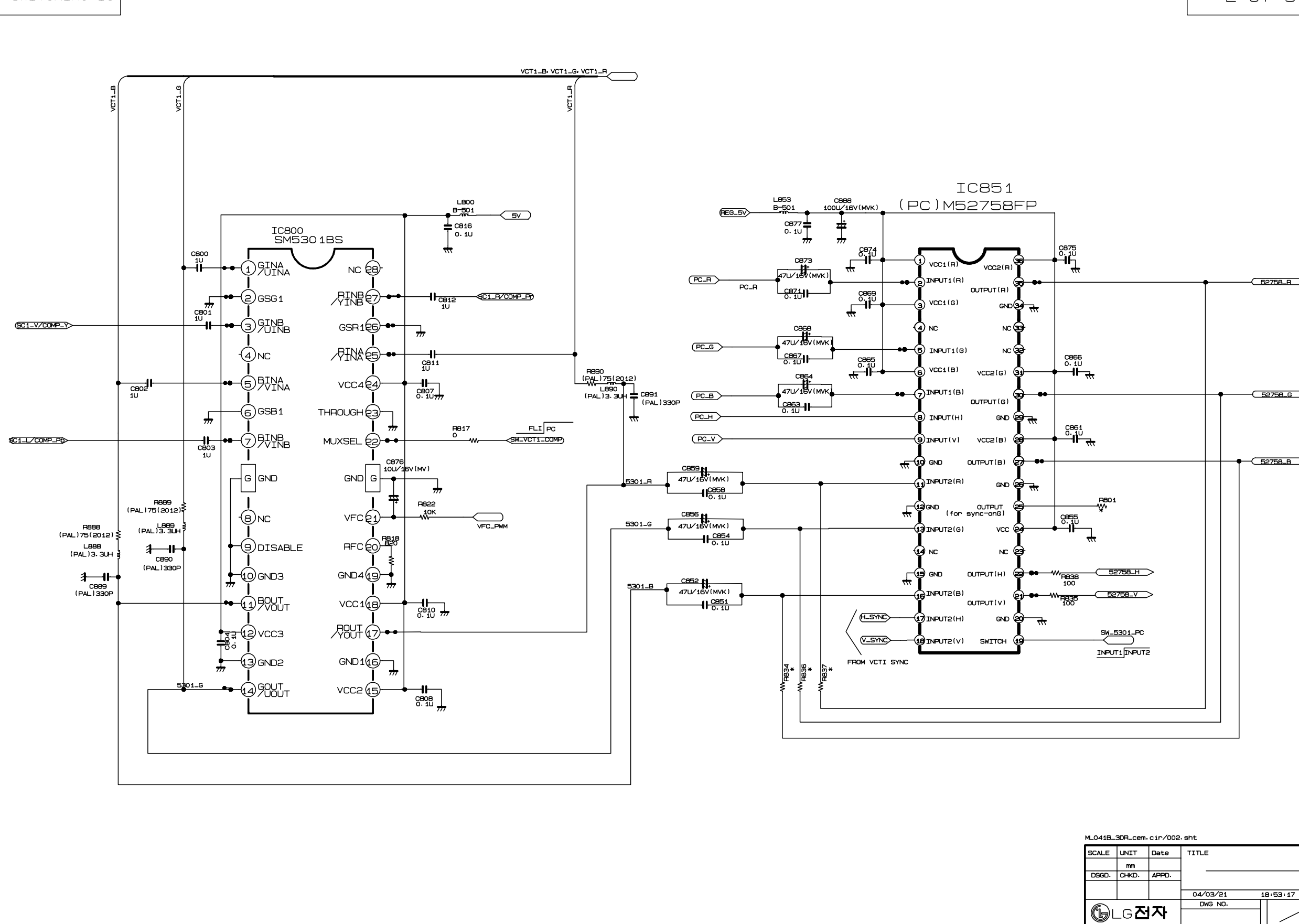
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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
JACK BOARD				
		C1215	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1216	0CH3103K516	10000PF 50V 10% B(Y5P) 2012
		C1221	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C1223	0CH6471K416	470F 50V J NP0 2012 R/TP
		C1224	0CH6471K416	470F 50V J NP0 2012 R/TP
		L1200	0RH0752D622	75 1/10W 5 D.R/TP
		L1202	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L1203	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		L1206	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1207	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1208	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1211	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1212	0LC0233002A	3.3UH CERATECH R/TP
		L1213	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1214	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L1215	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		R1201	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R1202	0RH0752D622	75 1/10W 5 D.R/TP
		R1217	0RH0752D622	75 1/10W 5 D.R/TP
		R1218	0RH0752D622	75 1/10W 5 D.R/TP
		R1219	0RH0752D622	75 1/10W 5 D.R/TP
		R1220	0RH0752D622	75 1/10W 5 D.R/TP
		R1224	0RJ1000H680	100 OHM 1/2 W 5% 5025 R/TP
		R1225	0RJ1000H680	100 OHM 1/2 W 5% 5025 R/TP
		R1230	0RH0752D622	75 1/10W 5 D.R/TP
		R1231	0RH0752D622	75 1/10W 5 D.R/TP
		R1232	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R1233	0RH4703D622	470K 1/10W 5 D.R/TP
		R1234	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R1235	0RH4703D622	470K 1/10W 5 D.R/TP
		ZD1200	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD1206	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD1207	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD1212	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD1213	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD1214	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		C1217	0CH3104K946	100000PF 50V Z F 2012 R/TP
		C1218	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C1219	0CH6331K416	330PF 50V J NP0 2012 R/TP
		C1220	0CH6331K416	330PF 50V J NP0 2012 R/TP
		L1209	0LC0233002A	3.3UH CERATECH R/TP
		L1210	0LC0233002A	3.3UH CERATECH R/TP
		R1226	0RH0472D622	47 1/10W 5 D.R/TP
		R1227	0RH0752D622	75 1/10W 5 D.R/TP
		R1228	0RH0752D622	75 1/10W 5 D.R/TP
		R1229	0RH0752D622	75 1/10W 5 D.R/TP
		ZD1210	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
		ZD1211	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
SIDE A/V BOARD				
		C2302	0CH6471K416	470F 50V J NP0 2012 R/TP
		C2303	0CH6471K416	470F 50V J NP0 2012 R/TP
		C2306	0CH6391K416	390PF 50V 5% NP0 2012 R/TP
		L2303	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L2304	0LC1032101A	10UH 10% 3216 R/TC FI-C3216-
		L2306	0LC0233002A	3.3UH CERATECH R/TP
		L2401	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		L2402	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		R2304	0RH0752D622	75 1/10W 5 D.R/TP
		R2305	0RH4703D622	470K 1/10W 5 D.R/TP

				DATE: 2005. 03. 04.
*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R2306	0RH4703D622	470K 1/10W 5 D.R/TP
		R2308	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R2309	0RH5101D622	5.1K 1/10W 5 D.R/TP
		R2310	0RH0752D622	75 1/10W 5 D.R/TP
		ZD2306	0DZ620009HB	UDZ S 6.2B TP ROHM SOD323 20
IR BOARD				
		C2101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3101	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3102	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3103	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3104	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3105	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3106	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		C3107	0CH3104K566	0.1UF 50V 10% X7R 2012 R/TP
		L2101	6210TCE001A	HB-1S2012-080JT CERATEC 2012
		L3300	6210TCE001G	HH-1M3216-501 CERATEC 3216MM
		Q2101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q2102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q2103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3101	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3102	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3103	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3104	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3105	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3106	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3107	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		Q3108	0TR387500AA	CHIP 2SC3875S(ALY) BK KEC -
		R2101	0RH1000D622	100 1/10W 5 D.R/TP
		R2102	0RH1000D622	100 1/10W 5 D.R/TP
		R2103	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2104	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2105	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R2106	0RH1000D622	100 1/10W 5 D.R/TP
		R3101	0RH2200D622	220 1/10W 5 D.R/TP
		R3102	0RH2200D622	220 1/10W 5 D.R/TP
		R3103	0RH2200D622	220 1/10W 5 D.R/TP
		R3104	0RH2200D622	220 1/10W 5 D.R/TP
		R3105	0RH2200D622	220 1/10W 5 D.R/TP
		R3106	0RH2200D622	220 1/10W 5 D.R/TP
		R3107	0RH2200D622	220 1/10W 5 D.R/TP
		R3120	0RH1001D622	1K OHM 1 / 10 W 2012 5.00% D
		R3211	0RH1000D622	100 1/10W 5 D.R/TP
		R3212	0RH1000D622	100 1/10W 5 D.R/TP
		R3213	0RH1000D622	100 1/10W 5 D.R/TP
		R3214	0RH1000D622	100 1/10W 5 D.R/TP
		R3215	0RH1000D622	100 1/10W 5 D.R/TP
		R3216	0RH1000D622	100 1/10W 5 D.R/TP
		R3217	0RH1000D622	100 1/10W 5 D.R/TP
		R3218	0RH0000D622	0 OHM 1 / 10 W 2012 5.00% D
		LED2100	0DL200000CA	SAM5670(DL-2LRG) BK Y-GREEN
		PA2101	6726TV0001A	TSOP4838SO1 VISHAY 38.0KHZ L
		LED801	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED802	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED803	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED804	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED805	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED806	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB
		LED807	0DLBE0158AA	BRIGHT LED ELECTRONICS BL-HB



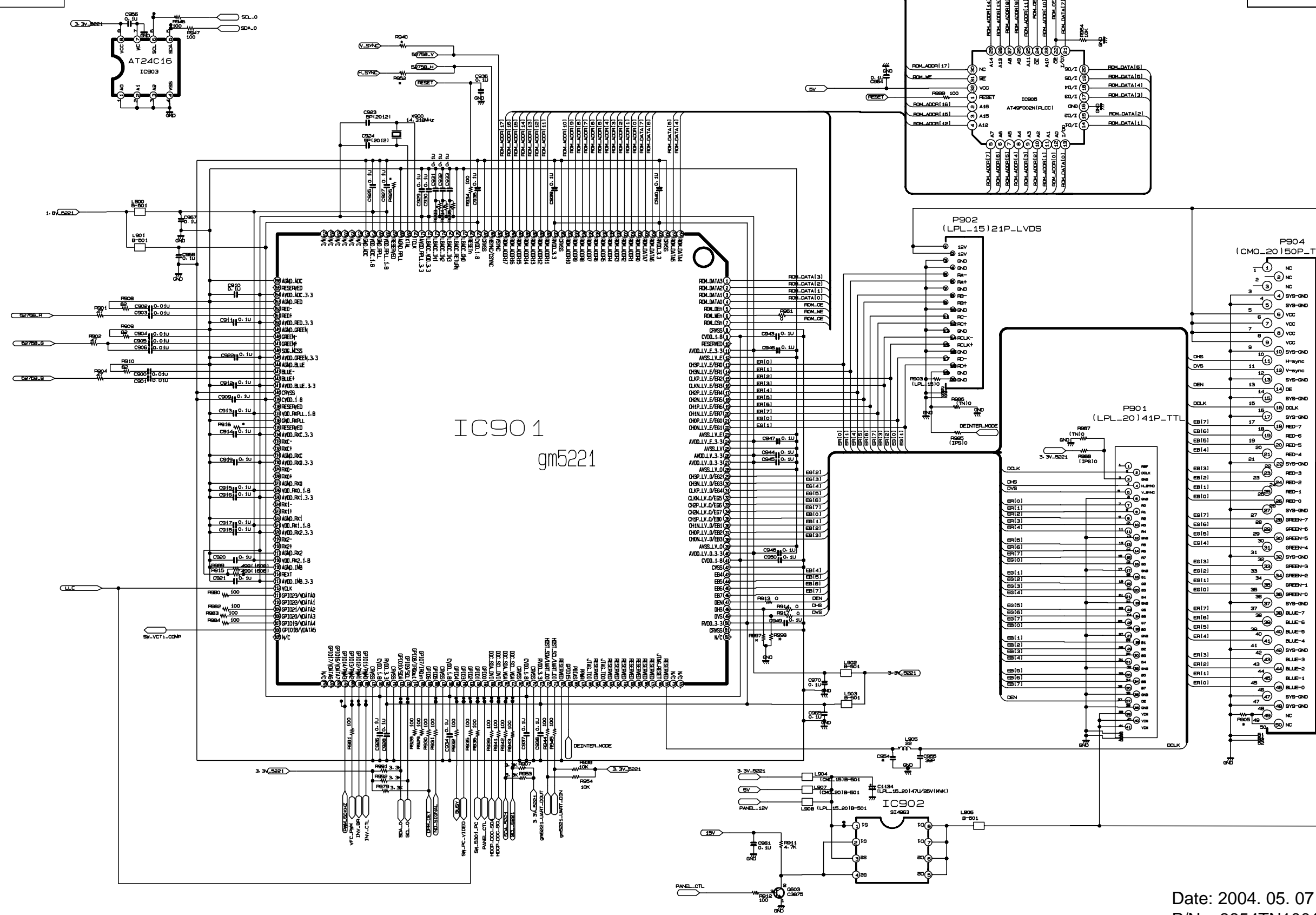
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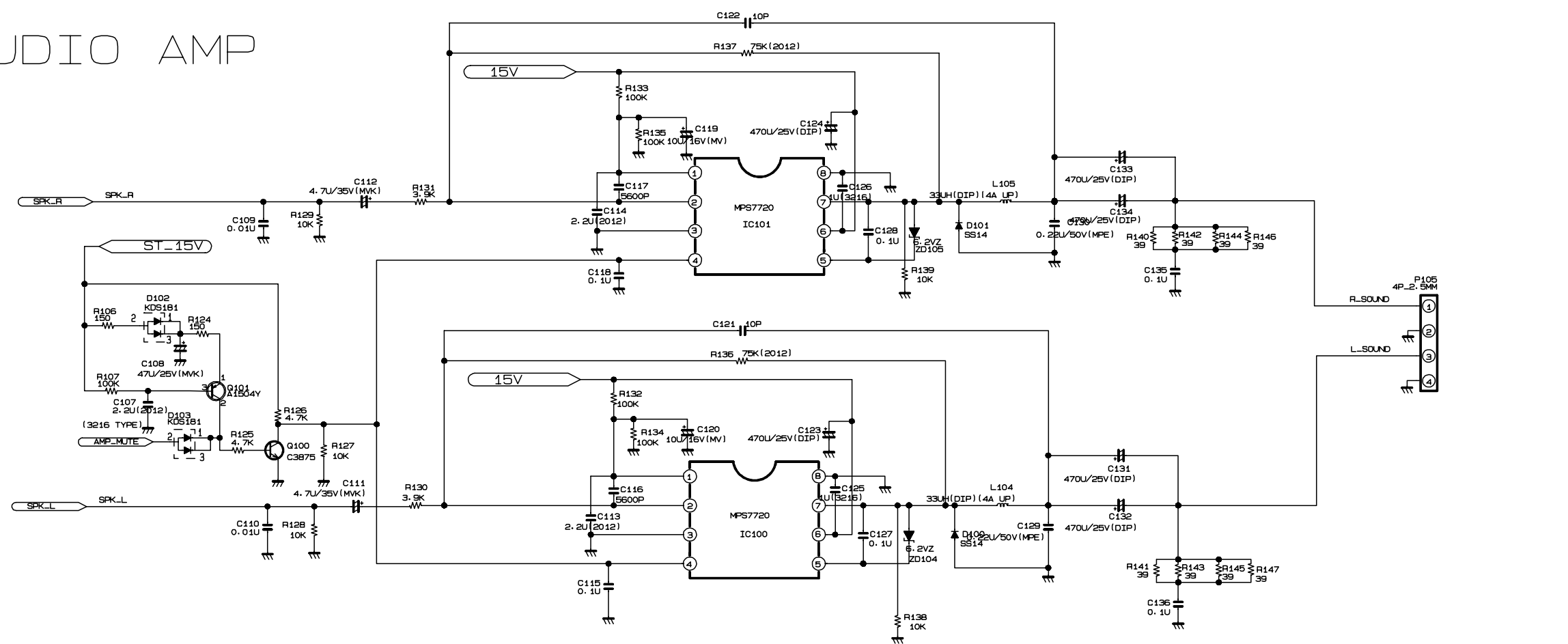
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Date: 2004. 05. 07
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AUDIO AMP



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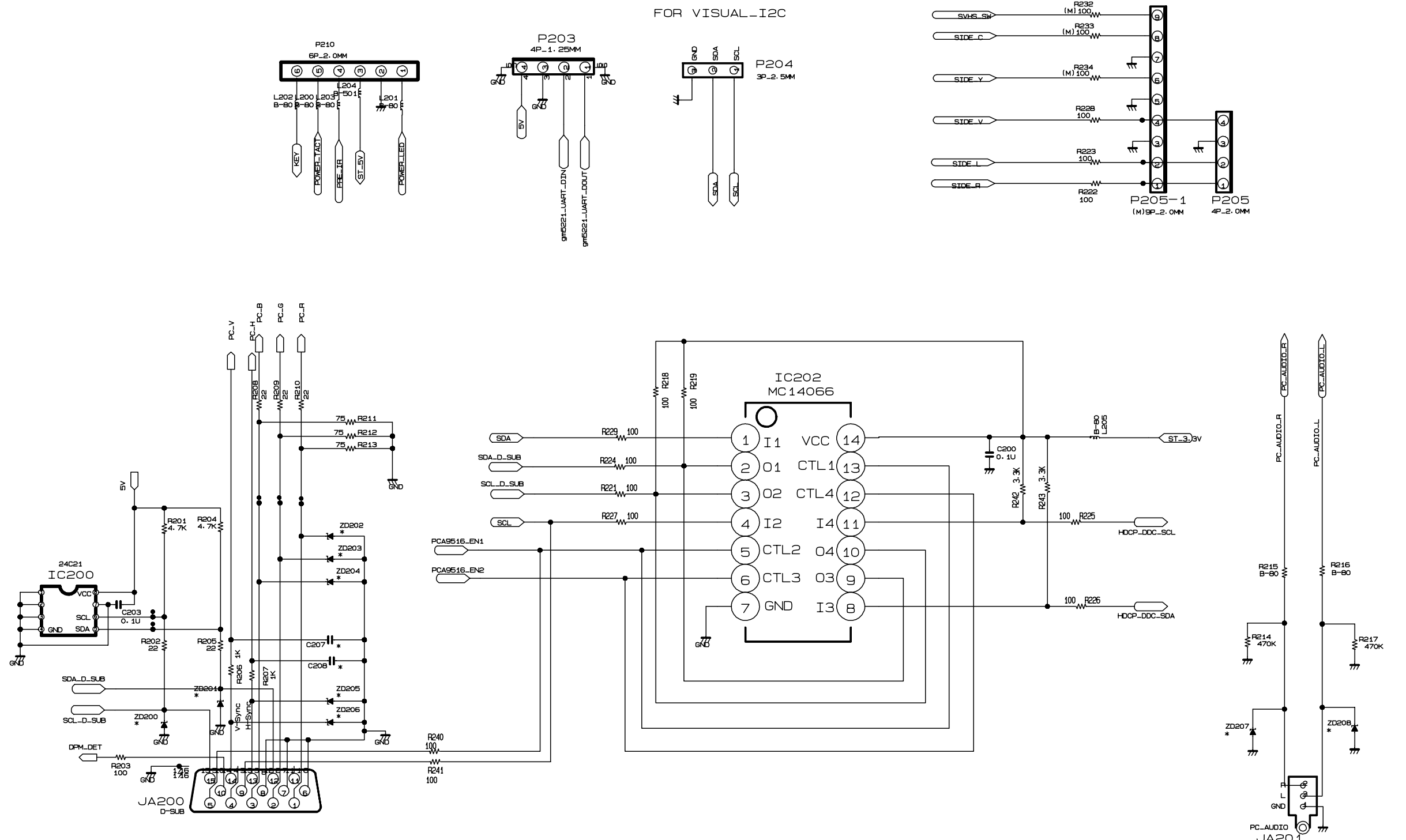
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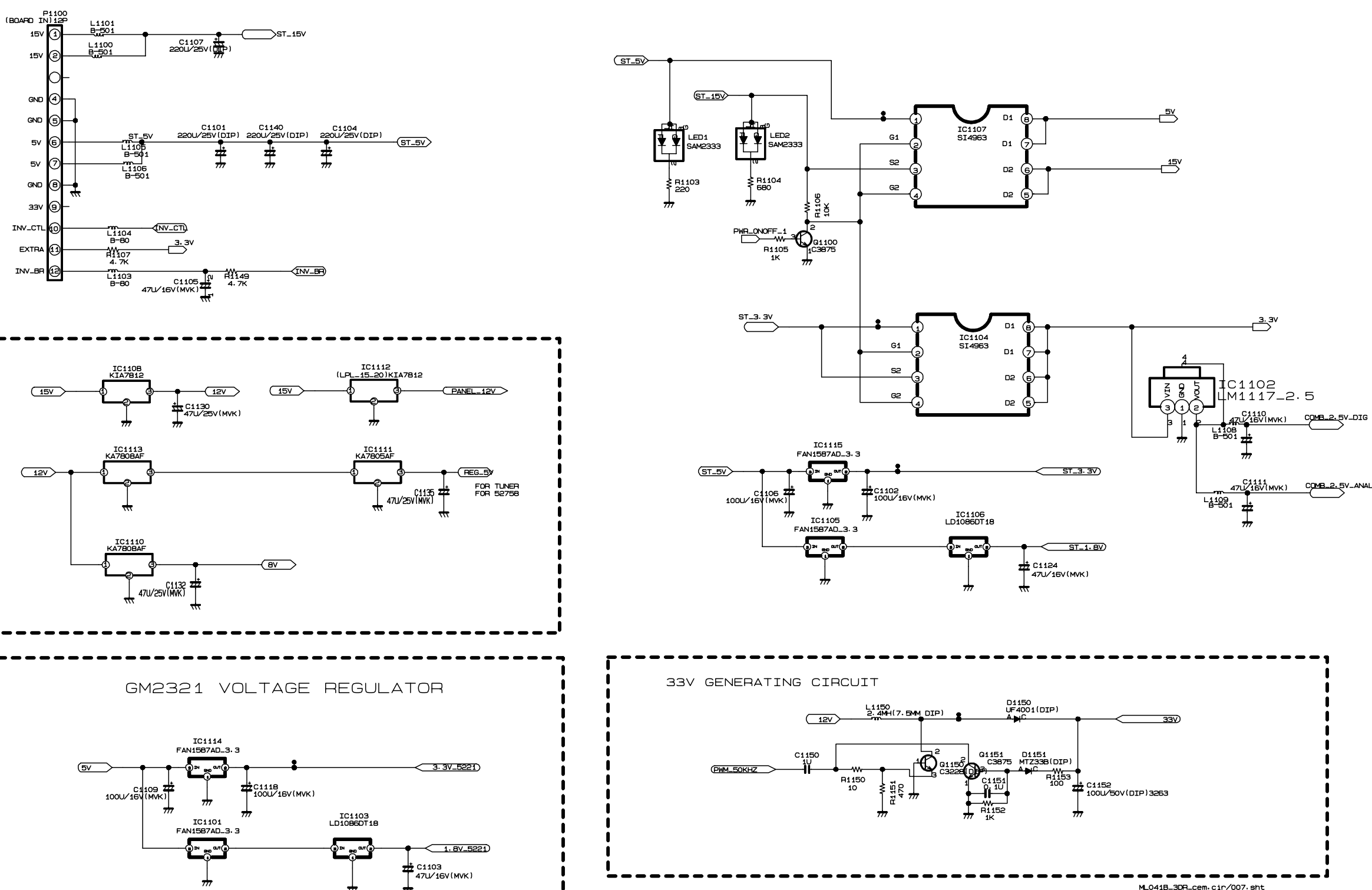
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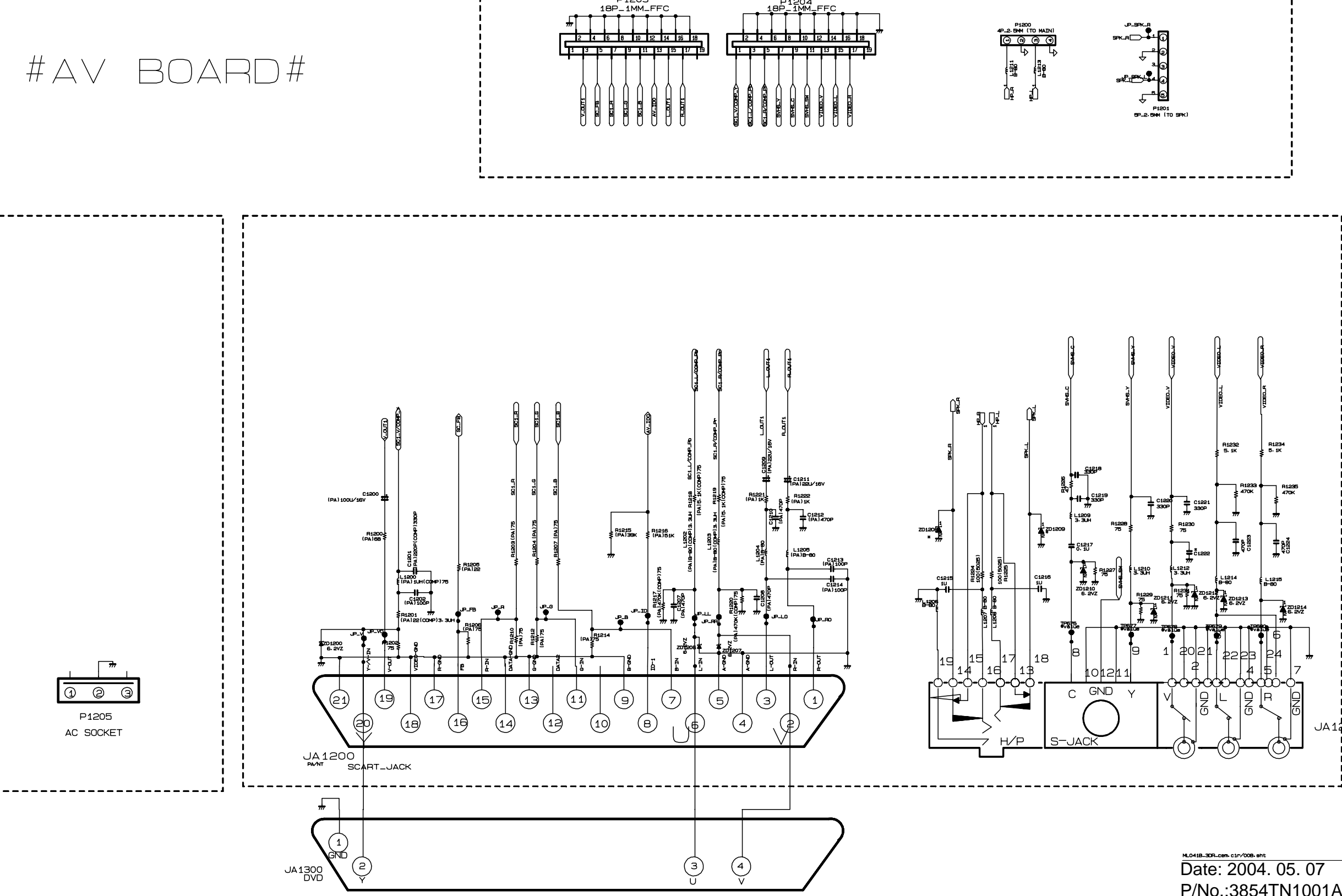
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#AV BOARD#



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